

IN THE CLAIMS:

Please cancel claims 1-5 without prejudice or disclaimer of any of the subject matter contained therein.

Please add the following new claims:

6-7. A macroreticular product having a high potential to absorb organic solvents, wherein the product is formed by cross-linking a polymer so that the organic solvents are molecularly enclosed and externally adhered to the product.--

7-8. The product according to claim 7, wherein the polymer is polystyrene, trimeric copolymer styrene, ethylene SEBS (styrene, ethylene, butadiene, styrene), butadiene SEBS, or elastomeric SBR.--

8-9. The product according to claim 8, wherein the elastomeric SBR has 10%, 20% or 40% styrene.--

9-10. The product according to claim 7, wherein the cross-linking is performed in chlorinated solvent using 1,4-dichloromethyl-2,5-dimethylbenzene and  $\text{TiCl}_4$ .--

10-11. The product according to claim 10, wherein the  $\text{TiCl}_4$  is a 10%  $\text{TiCl}_4$  solution in the chlorinated solvent.--

11-12. The product according to claim 10, wherein the chlorinated solvent is dichloroethane.--

<sup>12</sup>  
--~~13~~. The product according to claim 7, wherein the product has Mc of 50,000.--

<sup>13</sup>  
--~~14~~. The product according to claim 10, wherein the polymer is SEBS and a ratio of 1,4-dichloromethyl-2,5-dimethylbenzene to SEBS is greater than 4%, so that the product has a porosity of greater than 0.279 cm<sup>3</sup>/g.--

<sup>14</sup>  
--~~15~~. The product according to claim 10, wherein the cross-linking is performed at a temperature of 60°C.--

<sup>15</sup>  
--~~16~~. A method for absorbing oil and organic solvents from bodies of water, the method comprising:

placing the product of claim 7 in a net; and

sweeping a surface of the water.--

<sup>16</sup>  
--~~17~~. The method according to claim 16, further comprising:

putting the product in a tank; and

washing the product with petroleum to collect absorbed matter, whereby the product is ready for reuse.--

<sup>17</sup>  
--~~18~~. The method according to claim 16, wherein the product is a mixture of 20% polystyrene, 30% SEBS, 30% SBR having 10% styrene content, and 20% SBR having 20% styrene content.--

~~19~~. The method according to claim 16, wherein the oil and organic solvents are 75-80% externally adhered to the product.--

<sup>19</sup>  
~~20~~. A method for producing macroreticular polymeric products capable of absorbing petroleum, oil and organic solvents molecularly enclosed or externally adhered, said method comprising:

cross-linking polymers or copolymers of styrene with 1,4-diethylcromethyl-2,5-dimethylbenzene (DCMDMB) in a chlorinated hydrocarbon solvent in the presence of titanium tetrachloride ( $\text{TiCl}_4$ ) as a cross-linking agent.--

<sup>20</sup>  
~~21~~. The method according to claim 20, wherein the polymer to be cross-linked comprises polystyrene (PS) and the copolymer or styrene comprises a copolymer of styrene, ethylene, butadiene and styrene (SEBS) or elastomeric styrene butadiene rubber (SBR) with 10%, 20% or 40% styrene, completely hydrogenated.--

<sup>21</sup>  
~~22~~. The method according to claim 20, wherein the crosslinked polymers or copolymers are obtained in a thick mass, the method further comprising:

cutting the crosslinked polymers or copolymers into pieces; and

purifying and deodorizing the pieces by heating the pieces up to 170°C under vacuum with stirring.--

<sup>22</sup>  
~~23~~. The method according to claim 21, wherein the crosslinked polymers or copolymers are obtained in a thick mass, the method further comprising:

cutting the crosslinked polymers or copolymers into pieces; and

purifying and deodorizing the pieces by heating the pieces up to 170°C under vacuum with stirring.--

<sup>23</sup>  
--~~24~~. A method for absorbing oil and organic solvents from bodies of water, the method comprising:

placing the macroreticular polymeric product of claim ~~20~~ in a net; and

sweeping a surface of the water.--

<sup>24</sup> <sup>23</sup>  
--~~25~~. The method according to claim ~~24~~, further comprising:

putting the macroreticular polymeric product in a tank; and

washing the product with petroleum to collect absorbed matter, whereby the product is ready for reuse.--

<sup>25</sup>  
--~~26~~. The method according to claim ~~24~~, wherein the macroreticular polymeric product is a mixture of 20% polystyrene, 30% SEBS, 30% SBR having 10% styrene content, and 20% SBR having 20% styrene content.--

<sup>26</sup>  
--~~27~~. The method according to claim ~~24~~, wherein the oil and organic solvents are 75-80% externally adhered to the macroreticular polymeric product.--